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**(54) Title:** SUPERCONDUCTING QUANTUM INTERFERENCE DEVICE

**(57) Abstract** A superconducting magnetic field detection element (10) comprising at least one superconducting pick-up loop (12) formed on a common flexible substrate (11), wherein the common flexible substrate (11) is in a non-planar position, such that the at least one superconducting pick-up loop (12) is operable to detect magnetic fields of differing orientation.

